

Global Vanadium Pentoxide Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G425D03FD298EN.html>

Date: August 2026

Pages: 166

Price: US\$ 4,480.00 (Single User License)

ID: G425D03FD298EN

Abstracts

The global Vanadium Pentoxide market size is expected to reach \$ 2091 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Vanadium Pentoxide is a vanadium oxide product with V_2O_5 as its principal chemical component, commonly supplied as flake, powder, granule, or fused flake. It is one of the most important intermediate products in the vanadium value chain. Mainstream industrial-grade material is typically specified as 98% V_2O_5 , while chemical-grade and battery-material grades can exceed 99% purity. Key quality parameters include V_2O_5 assay, impurity levels such as iron, silicon, chromium, sodium, and potassium, particle size, loss on ignition, solubility, and batch consistency. Major production regions include China, South Africa, Brazil, the United States, Germany, and Austria. Typical applications include ferrovanadium and vanadium-nitrogen alloy feedstock, aluminum-vanadium master alloys, chemical catalysts, glass and ceramic coloring, pigments, and vanadium redox flow battery electrolyte precursors.

In 2025, global Vanadium Pentoxide production reached approximately 115,000 to 130,000 metric tons. Under mainstream bulk transaction conditions for 98% industrial-grade flake, powder, and fused flake, ex-works and FOB prices were mainly concentrated at USD 10.5 to USD 12.5 per kg; high-purity grades, small-package reagent grades, and specialty battery-material grades traded at significantly higher prices than standard industrial-grade material.

The global Vanadium Pentoxide market is entering a structural transition in which stable metallurgical demand is being complemented by rising demand from energy storage and high-performance materials. Steel remains the largest demand base, with ferrovanadium, vanadium-nitrogen alloys, and vanadium microalloying applications

continuing to support commercial consumption of industrial-grade V_2O_5 . At the same time, vanadium redox flow batteries are gaining relevance in long-duration energy storage, renewable power integration, and grid-side peak regulation, extending the role of Vanadium Pentoxide from a conventional alloy feedstock to a strategic precursor for energy storage materials. Chemical catalysts, aerospace-grade aluminum-vanadium master alloys, glass, ceramics, and pigments also maintain higher-value demand, encouraging producers to upgrade toward higher purity, lower impurity levels, tighter batch stability, and customized specifications.

The main market challenges come from resource concentration, price volatility, and uneven downstream adoption. Vanadium Pentoxide supply depends heavily on vanadiferous titanomagnetite, vanadium slag, petroleum residues, and spent catalysts, making production flexibility sensitive to steel operating rates, environmental regulation, mining and metallurgical costs, and recycling availability. In the short term, standard industrial-grade material will continue to fluctuate with steel and ferroalloy cycles. Over the medium to long term, the commercialization of energy storage projects, vanadium electrolyte production, resource recovery technologies, and qualification of high-purity products will become key growth variables. Companies with feedstock control, stable smelting capacity, refining technology, global customer certification, and diversified vanadium product portfolios are better positioned to preserve profitability and supply-chain influence through market cycles.

This report studies the global Vanadium Pentoxide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vanadium Pentoxide and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vanadium Pentoxide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vanadium Pentoxide total production and demand, 2021-2032, (Tons)

Global Vanadium Pentoxide total production value, 2021-2032, (USD Million)

Global Vanadium Pentoxide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Vanadium Pentoxide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Vanadium Pentoxide domestic production, consumption, key domestic

manufacturers and share

Global Vanadium Pentoxide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Vanadium Pentoxide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Vanadium Pentoxide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Vanadium Pentoxide market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pangang Group Vanadium Titanium & Resources Co., Ltd., HBIS Group Co., Ltd., Beijing Jianlong Heavy Industry Group Co., Ltd., Chengyu Vanadium and Titanium Technology Co., Ltd., Sichuan Fangda Group Vanadium and Titanium Co., Ltd., Sichuan Dazhou Iron and Steel Group Co., Ltd., Lomon Billions Group Co., Ltd., Shaanxi Wuzhou Mining Co., Ltd., Suzhou Donghua Fangui Co., Ltd., Liaoyang Hengye Chemical Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vanadium Pentoxide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Vanadium Pentoxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vanadium Pentoxide Market, Segmentation by Type:

98% Grade

99% to 99.5% Grade

Greater Than 99.5% Grade

Global Vanadium Pentoxide Market, Segmentation by Product Form:

Flake

Powder

Fused Flake and Granule

Others

Global Vanadium Pentoxide Market, Segmentation by Production Route:

Vanadium Slag Roasting and Leaching

Vanadium Ore and Shale Extraction

Spent Catalyst and Residue Recovery

Others

Global Vanadium Pentoxide Market, Segmentation by End Use Industry:

Steel and Metallurgy

Chemicals and Catalysts

Batteries and Energy Storage

Others

Global Vanadium Pentoxide Market, Segmentation by Application:

Ferrovanadium and Alloy Feedstock

Chemical Catalysts

Energy Storage Materials

Others

Companies Profiled:

Pangang Group Vanadium Titanium & Resources Co., Ltd.

HBIS Group Co., Ltd.

Beijing Jianlong Heavy Industry Group Co., Ltd.

Chengyu Vanadium and Titanium Technology Co., Ltd.

Sichuan Fangda Group Vanadium and Titanium Co., Ltd.

Sichuan Dazhou Iron and Steel Group Co., Ltd.

Lomon Billions Group Co., Ltd.

Shaanxi Wuzhou Mining Co., Ltd.

Suzhou Donghua Fangui Co., Ltd.

Liaoyang Hengye Chemical Co., Ltd.

Hunan Huifeng High Energy Co., Ltd.

Hunan Sanfeng Vanadium Industry Co., Ltd.

Jiangxi Baichuan Vanadium Industry Co., Ltd.

U.S. Vanadium LLC

Energy Fuels Inc.

Largo Inc.

Glencore plc

Bushveld Minerals Limited

EVRAZ plc

GfE Gesellschaft für Elektrometallurgie mbH

Treibacher Industrie AG

TAE WHA Inc.

Plum-Monix Industry Co., Ltd.

Moly Metal LLP

Premier Alloys & Chemicals Pvt. Ltd.

Key Questions Answered:

1. How big is the global Vanadium Pentoxide market?
2. What is the demand of the global Vanadium Pentoxide market?
3. What is the year over year growth of the global Vanadium Pentoxide market?
4. What is the production and production value of the global Vanadium Pentoxide market?
5. Who are the key producers in the global Vanadium Pentoxide market?
6. What are the growth factors driving the market demand?

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